<110> Hopkins, Christopher M.
      Peterson, David P.
      Cocks, Benjamin G.
      Hawkins, Phillip R.

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<130> PA-0042 US

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<151> 2000-10-25

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<211> 2106
<212> DNA
<213> Homo sapiens

<220>
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<223> Template ID: 197902.4

<220>
<221> unsure
<222> 179, 2040
<223> a, t, c, g, or other

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6

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<211> 3836
<212> DNA
<213> Homo sapiens


<220>
<221> misc_feature
<223> Template ID: 1095159.4


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<211> 2385
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Template ID: 331616.2

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<210> 9
<211> 2466
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Template ID: 1383590.8

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<210> 10
<211> 2002
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Template ID: 1400599.2

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<210> 11
<211> 2905
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Template ID: 040652.36

<400> 11

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11

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<210> 12
<211> 1371
<212> DNA
<213> Homo sapiens

<220>
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<223> Template ID: 1098584.1

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<210> 13
<211> 2582
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Template ID: 231454.18

<220>
<221> unsure
<222> 2243
<223> a, t, c, g, or other
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<400> 13

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<210> 14
<211> 4563
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Template ID: 400744.1

<220>
<221> unsure
<222> 3203-3236, 3888-3911

<223> a, t, c, g, or other

<400> 14

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<210> 15
<211> 5811
<212> DNA
<213> Homo sapiens

<220>
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<223> Template ID: 977954.13

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16

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attacaggtg atgttttttt taagttatgc ctatctgtag tttcctttt ttcctaaaat 5760
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<210> 16
<211> 2692
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Template ID: 977954.14

<220>
<221> unsure
<222> 108
<223> a, t, c, g, or other

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cggtcttacc cagcgctggc cggcggacct gaccacggct cctccccctg ccacacctcc 180
ctggccgtgg tggggattgc cctggggctc tggcggacgt gactggtccc ttcacccgct 240
ccttgtcggg gtgtgctggg gcgacccttg ctggaggtag cgacctcagc cctttctccc 300
gcttccccac gcctcttacc cccagattac attctctgtg tggtgtcttt actgcagatg 360
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gaggctaccc cggagaatga taacactttg tgtccaggat tgagaaatgc caaagttgaa 540
gatttaagga gtttagccaa cttttttgga tcttgcactg aaactttgt cctggctgtc 600
aatattttgg acaggttctt ggctcttatg aaggtgaaac ctaaacattt gtcttgcatt 660
ggagtctgtt ctttttttgct ggctgctaga atagttgaag aagactgcaa tattccatcc 720
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gaaaaaataa tttcagaaaa attgcactat gaattggaag ctactactgc cttaaacttt 840
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17

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tgtattgcta tatgggtgcc aagattgaat atgaagaacc cgagtgtttg tagtattata 2340
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<210> 17
<211> 1997
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Template ID: 221445.1

<220>
<221> unsure
<222> 1345
<223> a, t, c, g, or other

<400> 17
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tttcagtttg gatgatttgg tttgctgcat ctaggtcggt gtttgatcat ctgaaaaaac 180
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gcacaaagct gtagtggtga attaactatc tccttattga ttctctcctg tacccagatg 360
caaaaagtgc taagtttctc ttgtcctcgt aataccattt ggattttatt tctgaattta 420
aatagtaaaa tatttatgat gctgatcttt aacccaccta aaatttata gtgaaacctg 480
ctttatattg ttgttctgaa gcttacaatt gacctataca ttgcattcag caagctcctg 540
aatttagaac tgccgtcagt gtagtgtatg ctgtgttcca tgttgccttt ttagatggct 600
ttctacccce tgaacaataa ataggatgag gttttactgt aattgggtaa agtttactct 660
tggacattat ttcgatgcta aagtaaggat tctgtggatg ttacttaaag agaaaagcat 720
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18

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actaatttgc taagtctttt gtttagtcct gcaagactga tgcttaatac acagtctgtt 1560
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aagacagtgt aaatagttaa agaatgttga taaaattgaa acatttggtt gtggaattgt 1920
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aaactaacat tgtaaaa                                               1997
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<210> 18
<211> 1344
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Template ID: 985369.1

<400> 18
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acaatgcagt agccacttgg cttgtggaat ttactgaagg ctatttcctg taacttgcta 360
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gtaaaatgat ggaagaactc tttaaggtaa tcctttggga taaaggatcc tgggaagttc 720
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agatatatat ctgtggtgtg caac                                       1344
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<210> 19
<211> 681
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Template ID: 403116.12

<400> 19
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tcgcaccggc cagcttccac ccactctcac ccctcttctg ccagttaacg gggctgtgcg 120
cgaggagagc atccactgca agtcggtcga ggagatctcg acgctggtgc agaagctggc 180
cgaccagtcg ggcttggacg tgatccgcat ccgcaagccc ttccacaccg acaaccctag 240
```

19

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catccagggc cagtggcacc ccttcaccaa caagccgacc acgttccgcg ggctacgccc 300
ccgagaggtt caggatcctg ccccagccca ggtgcaagca cagtgaagag ttgcccccacc 360
aactgcagcc ccaggctttg gactgttact ccgtgcctgc ttctggggggc agtgaccttg 420
tgaaccactc atttttatgc aagtggcatc cctaaaacct gagatgagga agacttcaag 480
ggttttacag dacccttgtt ttttaaatcc aaattgataa taatgatctc aaaacacagt 540
gagaggtctg aaggctggct tctgaagaat ccctgatgtc ttattggaac aaccactgag 600
ctacggagag ctctgctgtg atgggctagg cactttatat ctgtgtgaat accgatttat 660
aacacaggtt aataaactta t                                          681
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<210> 20
<211> 1042
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Template ID: 403116.13

<400> 20
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tcttggccag cgttctccac aacggactgg gtcgctatgt gcagcagctg cagcgtctga 180
gcttcagcgt cagccgcgac ggcgcctcgt ctcgcggcgc cagggagttc gtggagcggg 240
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gctttggact gttactccgg taaaggtggt cttccccctt tgggattcca agcccaggca 660
aatggaaccc atcaatgggc aagttgacag aggttctgct tgggataatg aagagctgcc 720
tgtttctttc cagtgcctgc ttctggggggc agtgaccttg tgaaccactc atttttatgc 780
aagtggcatc cctaaaacct gagatgagga agacttcaag ggttttacag dacccttgtt 840
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tctgaagaat ccctgatgtc ttattggaac aaccactgag ctacggagag ctctgctgtg 960
atgggctagg cactttatat ctgtgtgaat acagatttat aaaacaggtt aataaactta 1020
tccaaggtca catttcaaaa aa                                         1042
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<210> 21
<211> 1109
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Template ID: 403116.33

<400> 21
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gcgtctgagc ttcagcgtca gccgcgacgg cgcctcgtct cgcggcgcca ggtgagccaa 180
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<210> 22
<211> 4405
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Template ID: 243902.23

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<211> 4281
<212> DNA
<213> Homo sapiens

<220>
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<223> Template ID: 243902.24

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tccttctacc accccagggt catgaaaaag ttaggaaacc aaacgtatta catttttataa 240
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cactgatgaa acctctaatg aggtgtcaaa accacaaaca aaactataac acatgatggc 420
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ttataagtac ttgctcacta ataattgtcc aaattttta tttactatag gaacatctg 600
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22

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aactcaagtt tgcttcctaa ccagctccct ttcttcctcc tgatgcacaa aactgttgtc 840
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23

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<210> 24
<211> 1821
<212> DNA
<213> Homo sapiens

<220>
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<223> Template ID: 337787.1

<220>
<221> unsure
<222> 322, 540, 805-852, 1816
<223> a, t, c, g, or other

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<211> 2673
<212> DNA
<213> Homo sapiens

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<223> Template ID: 1032796.1

<220>
<221> unsure
<222> 2543
<223> a, t, c, g, or other

<400> 25
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29

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<210> 29
<211> 2038
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Template ID: 233843.3

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gatcctgatt tttcaggagt tcaagcgaca atggcagccc aatacggcag tatgagcttc 180
aaccccagca caccaggggc cagttatggg cctggaaggc aagagcccag aaattcccaa 240
ttgagaattg tgttagtggg taaaaccgga gcaggaaaaa gtgcaacagg aaacagcatc 300
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gctccagaag acattcaaga cttgatggac attttcggtg accgctactg tgcgttaaac 720
aacaaggcaa caggcgctga gcaggaggcc cagagggcac agttgctggg cctgatccag 780
cgcgtggtga gggagaacaa ggaaggctgc tacactaata ggatgtacca aagggcggag 840
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<210> 30
<211> 2714
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Template ID: 412290.13

<220>
<221> unsure
<222> 2145-2461
<223> a, t, c, g, or other

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atgccccac tgaccacact accatcccct tattagactg gagaggctgc agggaggggt 180

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gatatccaaa tgagcagcag aatcctgtct ctcccttcag gccctctgc tccttatgag 360
tggtgttttc ccttggtttt ggatgagaaa caccctttcc ccttccagag ggattgtttc 420
tgtggacccc accctgagtt ttcccctggt taggcaacgg gcaggtgcgg ggtggtggaa 480
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tggaccagca gtatgaattt ttgcaactct ctgtattgct ctttgcctcg gttttttcat 2640
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atgcctacaa caac                                                   2714
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<210> 31
<211> 1095
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Template ID: 412290.15

<400> 31

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atttctgcct ttctgtatat cccatggagt caccaggatc aaagtgggta accgtcatgt 180
atgcatgtat gtgtgtgtac atatacacat tgctgggggtt ggagtgtggt gtgtgggtaa 240
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gtgtgagttg gaatcactga ctaaaactct ccacaccagg ctgtgttcct gctcattgct 300
ggaggcactg tcaggggccc tgtcctcaac accgggtctg acacttgcag atcaggcagg 360
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gaagcaagca atctgtacct gcagtccttg tctgtaacca tggcaccctg gattctcaca 540
catctcatcg tggagttcca ccatgtgtca ggcatggcac tgagcacctt cttttaagaa 600
tataatttgt aattatgtag attcttaatt ctacttcaaa atgccacaca gccttcatgt 660
gataaaatga aacaattgct caactgatct cctgggatct ctactaagat gttggcagct 720
cggccagctg gtctggccct ggacgtgcct tcagggtctg gttatgcttc atgacctgca 780
ttgtggtcag tgccattttg cagactttga tcacagtgaa acgttccacg ggaacttggg 840
ccatgagaaa catccttcct aaccacgtga ctgcagaaac atccttatca catcctcctg 900
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gctgttgaag ccacc 1095
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<210> 32
<211> 636
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Template ID: 412290.5

<220>
<221> unsure
<222> 610-612, 619-622, 629, 632
<223> a, t, c, g, or other

<400> 32
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tccttcatca gatgtgagca ccaggatggc aggggcctca tctgtcctgt tcctcctgtg 180
gcctgggtcc tagcaccatg tctggtacag tgtagatgct caagggaagt ttacttagta 240
gaactgttta tctgggagat gttactgtag gtctaacctg taccatattg taaacctcca 300
gccattttgc agactttgat cacagtgaaa cgttccatgg gaacttgggc catgagaaac 360
atccttccta accacgtgac tgcagaaaca tccttatcac atcctcctgg gcaaaggccc 420
aacagcctga ctgcagggac atccttgcca tatcctgctg ggcagcaagc tctaccaccc 480
agatccctcc ctcccagtcc catgattacc ccagcctgtg agtggcagtt ggttctggca 540
ctaagctggt ttcctcctcc ccagggtttt gctggcaata aagatgttgc tgttgaagcc 600
aaaaaaaaan nnaaaaaann nnaaacccna antaaa 636
```

```
<210> 33
<211> 1442
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Template ID: 984100.1

<400> 33
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atcattgttt tgaatattac tcctattttt gtaaactgga attaaaagga tagtattttt 120
atccatgaca ggcctgaaga tattactact taccatttgc tactgtacat aaacaatgat 180
gccctgctcc agggagattt tgaggtaaag atatggagaa ttgctgaagg gcattctttc 240
ccagtgagtc tctggggcag gctgcttcaa tcccagccta actcaactgg gctctgtccc 300
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cctggttggg tggcaattcc aatatttctg ctttctttga ttctcctttt atgtgtagtt 360
gtctctcttc agactctcag cccagaagaa aattctcctg ataaaacaac agctcgatcc 420
aaattgtgct tctccccaga attcacgcct ctccctagga gaagagttga ggaactgtac 480
agaaaagggc ggcttcgtta gaccgctctc ttttctgtac ttcctgagtg gccaggaat 540
ctaatatccc caaattaggg caattggaac aaagtgaagg acatagaggt atattggaag 600
aggcagagcc tgaggtggta ggaggaggac cctggaaatg gactggtttg agattgcccc 660
aggtctggga agctgagggc gaatccagtc cccgtggtcc tgactttggg cgccgggtat 720
tggaaatgga tgcaaagtac aatgtgtttt tctccagtgc tgtccatgct tctcatcttg 780
tgaaatggcc aggatcctct cctttgaaac ctgctctgta ggagctaccc ttttcctttg 840
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tgcttattgc ttagtaaaat ttatttcata aaaccaacct ttgtcatatt agaatgtgta 1140
gtgttcacat gttgctcagt tttgctaact gataaatcat ttaatcctct tcttcatatg 1200
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agaacctacg cttgtatcct ttctttggct aaagaaagca tgtctgtttc ctgtcaattc 1320
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cagcaacaga caaaccagcc agccaatctc ccaaatttca ggcacaagtt tattttttttt 1440
tt                                                                  1442
```

<210> 34
<211> 742
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Template ID: 984100.3

<400> 34
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ggatttgatc agtatgaagt cataaatcaa agaaaacaga attggatttg cattcccagg 120
cgggatggat gctgccagga gatcacattg caaatagtga aaacagaggc attcggtcta 180
tgcctgagtc ctgtgtatag gatcaatctt cctttaattc cgcagtctcc tcaggcaatg 240
tgacacggga tgcagtttgc agcttagtg cctttcttcg cctttaaat tgccacgaat 300
cacagatggc tatttagtgg ccctacaatg ctgcaacaca tcagcttgca ttttagtctt 360
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gaaatagggc tctagttaac cttttatttta tgaagtctaa tttagtgttc ccgtggctag 480
ttgcaagcat tttacagtga tcacccagtt taatcttttg tatacttttt agaaatgcca 540
agagccttac taaactgaag cagatttatg atatagtgat aatttaggta gatgttagtc 600
ttgaagctct tattttgtgt gcaactgatt ataaaaacac cttaaccaag tattattaca 660
cacatgatat ctataactag gactttgata actgttatat aaagtgtgta aaatttgtat 720
gaataaattt ttgtaaacaa tg                                            742
```

<210> 35
<211> 459
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Template ID: 215592.1

<220>
<221> unsure
<222> 133, 135-136
<223> a, t, c, g, or other

<400> 35

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gctctattcg caggtctctg tttacttgtt actcaggtcc aataacacct gcttagagag 120
gcttccctga cancnntatc ctacatgacc ctccctgcca gccagagtca ctgtctatat 180
tgttactgtg tttagtttc tgcattacat ttgtcttgga aattatcttg tttacgtggc 240
aggtgtacat cttgctccct taaatgaatg ctccttgacc actccacatt atctgctttg 300
tttattaacg gcagtaatct aaaacagtag tctaaaacag tgcaaggccc atcgttgatg 360
ggctgattaa ataagtatgc ctgtctttta atcaattcag ggtggaagag agtctctata 420
gaaagggttt aagggctgtg tctgtcaagg tccagtagc                        459
```

<210> 36
<211> 2227
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Template ID: 231109.11

<220>
<221> unsure
<222> 113
<223> a, t, c, g, or other

<400> 36

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tttgttctct tgctgaggat cttattttaa atgcaagtca cacctagtct gcaactgcag 180
gtcagaaatg gtttcacagt ggggtgccag gaagcaggga agctgcagga gccagttcta 240
ctggggtggg tgaatggagg tgatggcaga cacttttact gaatgtcggt ctttttttgt 300
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taggtactct gtgggttgct cctttttaaa acttaaggga aagttggaga ttgagcataa 480
gggcccttga gtaagactgt gtcttatgct ttcctttatc cctctgtata caggagacag 540
accaactaga agatgagaag tctgctttgc agaccgagat tgccaacctg ctgaaggaga 600
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atgacttcct gttcccagca tcatccaggc ccagtggctc tgagacagcc cgctccgtgc 900
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tattttattt ttttctacct tgaggtcttt tgacatgtgg aaagtgaatt tgaatgaaaa 1920
atttaagcat agtttgcaat gaggggcacc atctggtgtt aaccttaacc agaaagctgg 1980
```

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tttcctcctc ctcccccaa aaacctttgg ccaagagttc tccactgtga agactgaaag 2040
gacctggtga catttcggca tcagtcctgt taccacttgg aggtaacaga agcaggctcg 2100
tgtcctcctt taattctacc acactacatg actcgcaatt ggttctgaaa ttagaacgtt 2160
caccatcgta cttaaaatct taggggcatg aagagtcagc tagaacaagg aaaaagaaag 2220
tcgcagg                                                           2227
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<210> 37
<211> 1759
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Template ID: 234919.1

<220>
<221> unsure
<222> 23
<223> a, t, c, g, or other

<400> 37
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tgacttgacc tgagattaac tagggaatct tgagaataaa gatgagctct gaaaattgtt 180
tcgtagcaga gaacagctct ttgcatccgg agagtggaca agaaaatgat gccaccagtc 240
cccatttctc aacacgtcat gaagggtcct tccaagttcc tgtcctgtgt gctgtaatga 300
atgtggtctt catcaccatt ttaatcatag ctctcattgc cttatcagtg ggccaataca 360
attgtccagg ccaatacaca ttctcaatgc catcagacag ccatgtttct tcatgctctg 420
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aagtagaata aacacaaaa                                              1759
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<210> 38
<211> 892
<212> DNA
<213> Homo sapiens

<220>

36

<221> misc_feature
<223> Template ID: 238627.2

<400> 38
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attctcagca cattgcctca acagcttcaa ggtgagccag ctcaagactt tgctctccac 180
caggcagaag atgacagact gtgaatttgg atatatttac aggctggctc aggactatct 240
gcagtacgtc ctacagatac cacaacctgg atcaggtcca agcaaaacgt ccagagtgct 300
acaaaatgtt gcgttctcag tccaaaaaga agtggaaaag aatctgaagt catgcttgga 360
caatgttaat gttgtgtccg tagacactgc cagaacacta ttcaaccaag tgatggaaaa 420
ggagtttgaa gacggcatca ttaactgggg aagaattgta accatatttg catttgaagg 480
tattctcatc aagaaacttc tacgacagca aattgccccg gatgtggata cctataagga 540
gatttcatat tttgttgcgg agttcataat gaataacaca ggagaatgga taaggcaaaa 600
cggaggctgg gaaaatggct ttgtaaagaa gtttgaacct aaatctggct ggatgacttt 660
tctagaagtt acaggaaaga tctgtgaaat gctatctctc ctgaagcaat actgttgacc 720
agaaaggaca ctccatattg tgaaaccggc ctaattttc tgactgatat ggaaacgatt 780
gccaacacat acttctactt ttaaataaac aactttgatg atgtaacttg accttccaga 840
gttatggaaa ttttgtcccc atgtaatgaa taaattgtat gtatttttct ct   892

<210> 39
<211> 1176
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Template ID: 899156.35

<400> 39
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ccagtgccaa cttcattccc acggtcactg ccatctcgac cagtccggac ctgcagtggc 120
tggtgcagcc cgccctcgtc tcctctgtgg ccccatcgca gaccagagcc cctcaccctt 180
tcggagtccc cgcccctcc gctggggctt actccagggc tggcgttgtg aagaccatga 240
caggaggccg agcgcagagc attggcagga ggggcaaggt ggaacagtta tctccagaag 300
aagaagagaa aaggagaatc cgaagggaaa ggaataagat ggctgcagcc aaatgccgca 360
accggaggag ggagctgact gatacactcc aagcggagac agaccaacta gaagatgaga 420
agtctgcttt gcagaccgag attgccaacc tgctgaagga gaaggaaaaa ctagagttca 480
tcctggcagc tcaccgacct gcctctcctc aatgaccctg agcccaagcc ctcagtggaa 540
cctgtcaaga gcatcagcag catggagctg aagaccgagc cctttgatga cttcctgttc 600
ccagtggaca cttccagaga gctggtagtt agtagcatgt tgagccaggc ctgggtctgt 660
gtctctttc tctttctcct tagtcttctc atagcattaa ctaatctatt gggttcatta 720
ttggaattaa cctggtgctg gatattttca aattgtatct agtgcagctg attttaacaa 780
taactactgt gttcctggca atagtgtgtt ctgattagaa atgaccaata ttatactaag 840
aaaagatacg actttatttt ctggtagata gaaataaata gctatatcca tgtactgtag 900
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gaatgttctg acattaacag ttttccatga aaacgtttta ttgtgttttt aatttattta 1020
ttaagatgga ttctcagata tttatatttt tattttattt ttttctacct tgaggtcttt 1080
tgacatgtgg aaagtgaatt tgaatgaaaa atttaagcat gtttgcttat tgttccaaga 1140
cattgtcaat aaaagcatta agttgaatgc gaccaa   1176

<210> 40
<211> 4021
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

37

<223> Template ID: 988653.1

<220>
<221> unsure
<222> 2612, 3290-3488
<223> a, t, c, g, or other

<400> 40

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gaccggcccc tgccccagcc tccgcagccg cggcgcgtcc acgcccgccc gcgcccaggg  120
cgagtcgggg tcgccgcctg cacgcttctc agtgttcccc gcgccccgca tgtaacccgg  180
ccaggccccc gcaactgtgt cccctgcagc tccagccccg ggctgcaccc ccccgccccg  240
acaccagctc tccagcctgc tcgtccagga tggccgcggc caaggccgag atgcagctga  300
tgtccccgct gcagatctct gacccgttcg gatcctttcc tcactcgccc accatggaca  360
actaccctaa gctggaggag atgatgctgc tgagcaacgg ggctccccag ttcctcggcg  420
ccgccggggc cccagagggc agcggcagca acagcagcag cagcagcagc ggggggcggtg  480
gaggcggcgg gggcggcagc aacagcagca gcagcagcag caccttcaac cctcaggcgg  540
acacgggcga gcagccctac gagcacctga ccgcagagtc ttttcctgac atctctctga  600
acaacgagaa ggtgctggtg gagaccagtt accccagcca aaccactcga ctgcccccca  660
tcacctatac tggccgcttt tccctggagc ctgcacccaa cagtggcaac accttgtggc  720
ccgagccccct cttcagcttg gtcagtggcc tagtgagcat gaccaaccca ccggcctcct  780
cgtcctcagc accatctcca gcggcctcct ccgcctccgc ctcccagagc ccacccctga  840
gctgcgcagt gccatccaac gacagcagtc ccatttactc agcggcaccc accttcccca  900
cgccgaacac tgacattttc cctgagccac aaagccaggc cttcccgggc tcggcaggga  960
cagcgctcca gtacccgcct cctgcctacc ctgccgccaa gggtggcttc caggttccca  1020
tgatccccga ctacctgttt ccacagcagc aggggggatct gggcctgggc accccagacc  1080
agaagccctt ccagggcctg gagagccgca cccagcagcc ttcgctaacc cctctgtcta  1140
ctattaaggc ctttgccact cagtcgggct cccaggacct gaaggccctc aataccagct  1200
accagtccca gctcatcaaa cccagccgca tgcgcaagta ccccaaccgg cccagcaaga  1260
cgccccccca cgaacgccct tacgcttgcc cagtggagtc ctgtgatcgc cgcttctccc  1320
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gcatctgcat gcgcaacttc agccgcagcg accacctcac cacccacatc cgcacccaca  1440
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gcagcttccc ttcctcagct gtcaccaact ccttcagcgc ctccacaggg ctttcggaca  1860
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ttaactgaaa atgtaaattt ataaatatat tcaggagttg gaatgttgta gttacctact  2940
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38

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tactttgtac ttgtgtttgc ttaaacaaag tgactgtttg gcttataaac acattgaatg 3060
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c                                                                  4021
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<210> 41
<211> 611
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Template ID: 1097638.1

<400> 41
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cgccgtgtta ctgttgcact gatgtccgga gagacagtga cagcctccgt cagactcccg 120
cgtgaagatg tcacaaggga ttggcaattg tccccaggga caaaacactg tgtcccccc 180
agtgcaggga accgtgataa gcctttctgg tttcggagca cgtaaatgcg tccctgtaca 240
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tatttgttca gtgactattc tcggggccct gtgtagggggg ttattgcctc tgaaatgcct 420
cttctttatg tacaaagatt atttgcacga actggactgt gtgcaacgct ttttgggaga 480
atgatgtccc cgttgtatgt atgagtggct tctgggagat gggtgtcact ttttaaacca 540
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aaccaatttg t                                                       611
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<210> 42
<211> 2971
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Template ID: 1098423.13

<400> 42
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gcaactcctg gcttcccagc agccggaaca cagacaggag agagtcagtg gcaaatagac 120
attttttctta tttcttaaaa aacagcaact tgtttgctac tttttatttct gttgattttt 180
ttttcttggt gtgtgtggtg gttgttttta agtgtgtgagg gcaaaaggag ataccatccc 240
aggctcagtc caacccctct ccaaaacggc ttttctgaca ctccaggtag cgagggagtt 300
gggtctccag gttgtgcgag gagcaaatga tgaccgccaa ggccgtagac aaaatcccag 360
taactctcag tggtttttgtg caccagctgt ctgacaacat ctacccggtg gaggacctcg 420
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ccgccacgtc ggtgaccatc tttcccaatg ccgaactggg aggccccttt gaccagatga 480
acggagtggc cggagatggc atgatcaaca ttgacatgac tggagagaag aggtcgttgg 540
atctcccata tcccagcagc tttgctcccg tctctgcacc tagaaaccag accttcactt 600
acatgggcaa gttctccatt gaccctcagt accctggtgc cagctgctac ccagaaggca 660
taatcaatat tgtgagtgca ggcatcttgc aaggggtcac ttccccagct tcaaccacag 720
cctcatccag cgtcacctct gcctccccca acccactggc cacaggaccc ctgggtgtgt 780
gcaccatgtc ccagacccag cctgacctgg accacctgta ctctccgcca ccgcctcctc 840
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aataaatcta ttctaacgca aaaccactaa ctgaagttca gataatggat ggtttgtgac 2940
tatagtgtaa ataaatactt ttcaacaata a                                2971
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<210> 43
<211> 6012
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Template ID: 1100821.1

<400> 43
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gagctgctcg ccagcttctc acttccgctt ccttccagta aggagtcggg gtcttcccca 180
gttttctcag ccaggcggcg gcggcgactg gcaatgtttg gcctcaaaag aaacgcggta 240
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atcggactca acctctactg tggggggggcc ggcttggggg ccggcagcgg cggcgccacc 300
cgcccgggag ggcgactttt ggctacggag aaggaggcct cggcccggcg agagataggg 360
ggaggggagg ccggcgcggt gattggcgga agcgccggcg caagcccccc gtccaccctc 420
acgccagact cccggagggt cgcgcggccg ccgcccattg gcgccgaggt ccccgacgtc 480
accgcgaccc ccgcgaggct gcttttcttc gcgcccaccc gccgcgcggc gccgcttgag 540
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41

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<212> DNA
<213> Homo sapiens

<220>
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<223> Template ID: 1134866.36

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<211> 4025
<212> DNA
<213> Homo sapiens

<220>
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<223> Template ID: 1136056.1

<400> 46
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<212> DNA
<213> Homo sapiens

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<223> Template ID: 1253777.1

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<222> 1143, 2322, 2328, 2609
<223> a, t, c, g, or other

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<211> 3145
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Template ID: 1215335.7


<220>
<221> unsure
<222> 224, 227, 1368-1392
<223> a, t, c, g, or other


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<211> 1426
<212> DNA
<213> Homo sapiens

<220>
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<211> 4339

48

<212> DNA
<213> Homo sapiens

<220>
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<223> Template ID: 443096.24

<220>
<221> unsure
<222> 2039-2083
<223> a, t, c, g, or other

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49

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<211> 1685
<212> DNA
<213> Homo sapiens

<220>
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<213> Homo sapiens

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<220>
<221> unsure
<222> 1354-1382
<223> a, t, c, g, or other

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<211> 5642
<212> DNA
<213> Homo sapiens

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<223> Template ID: 349343.3

<220>
<221> unsure
<222> 1012-1074, 4045-4075
<223> a, t, c, g, or other

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52

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53

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<211> 1515
<212> DNA
<213> Homo sapiens

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<210> 55
<211> 7222

<212> DNA
<213> Homo sapiens

<220>
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<223> Template ID: 232049.2

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gcttcgtgga gttcgaggac tcccgcgacg ccgacgacgc cgtttacgag ctgaacggca 300
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acatgaagcg tgctttggac aaactggatg gcacagaaat aaatggcaga aatattaggc 660
ttattgaaga taagccacgc acaagccata ggcgatctta ctctggaagc agatccaggt 720
ctcgatctag aagacggtca cgaagtagga gtcgcaggag cagccgcagt agatctcgaa 780
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attcacattc tcgaagcaga tctaaggatg agtatgagaa atctcgaagc aggtctcggt 960
cccgatcccc caaagaaaat ggaaagggtg atataaagtc aaaatccaga tcaaggagcc 1020
agtcccgttc caattcgccg ctacctgttc caccctcaaa ggcccgttct gtgtcccctc 1080
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caccaaaaag agctacttca agatcccgtt ctagatctcg ctcaaagtca agatcaaggt 1140
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ttcctactta ggcagttact cttccatgtt tatacttggc ctcttctgca agaggaatct 1260
cttgaaaaca ggggcacaca gaaatttgat ttgtggccaa attggatgaa aaagatgagg 1320
ctctaaggaa atggtggcat gaagaccctc tcccttcttt gtagaattaa gataactttg 1380
attttatagc ttttgagcta acgtaacttt tgtaaagatt aagctcattt agtgttgttt 1440
tttntnannt tgtngntttt tttagtattt cagcaggatc tgctggcagg gttttttttgt 1500
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caggtgtgac tggaaagcat gatattctag ggttggtttg tagattcaaa taatccagaa 2700
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tgtttcagg gaaagaacat aaaagctttt tgaactacag ccttttaaa agagggatgg 3120
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gatggtgttt atgaacatgc cgtagtgcct ttatggccag tttgagtcct gcctactttg 3600
acttttacgt tcccattcct gtgttaccac cttcctcccg atttgttcac ctattttgtg 3660
ctttaaatct caataaaata cttactgagg gaaaaaa                           3697
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<210> 59
<211> 1537
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Template ID: 233576.58

<400> 59
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actaccccgg ctgcgcacag ctcggcgctc cttcccgctc cctcacacac cggcctcagc 120
ccgcaccggc agtagaagat ggtgaaagaa acaacttact acgatgtttt gggggtcaaa 180
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cccaatgcta ctcaggaaga attgaaaaag gcttatagga aactggcttt gaagtaccat 240
cctgataaga acccaaatga aggagagaag tttaaacaga tttctcaagc ttacgaagtt 300
ctctctgatg caaagaaaag ggaattatat gacaaaggag gagaacaggc aattaaagag 360
ggtggagcag gtggcggttt tggctccccc atggacatct ttgatatgtt ttttggagga 420
ggaggaagga tgcagagaga aaggagaggt aaaaatgttg tacatcagct ctcagtaacc 480
ctagaagact tatataatgg tgcaacaaga aaactggctc tgcaaaagaa tgtgatttgt 540
gacaaatgtg aaggtagagg aggtaagaaa ggagcagtag agtgctgtcc caattgccga 600
ggtactggaa tgcaaataag aattcatcag ataggacctg gaatggttca gcaaattcag 660
tctgtgtgca tggagtgcca gggccatggg gagcggatca gtcctaaaga tagatgtaaa 720
agctgcaacg gaaggaagat agttcgagag aagaaaattt tagaagttca tattgacaaa 780
ggcatgaaag atggccagaa gataacattc catggtgaag gagaccaaga accaggactg 840
gagccaggcg atattatcat tgtgttagat cagaaggacc atgctgtttt tactcgacga 900
ggagaagacc ttttcatgtg tatggacata cagctcgttg aagcactgtg tggcttccag 960
aagccaatat ctactcttga caaccgaacc atcgtcatca cctctcatcc aggtcagatt 1020
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tatgaaaagg gtcgcctaat catcgaattt aaggtaaact ttcctgagaa tggctttctc 1140
tctcctgata aactgtcttt gctggaaaaa ctcctacccg agaggaagga agtggaagag 1200
actgatgaga tggaccaagt agaactggtg gactttgatc caaatcagga aagacggcgc 1260
cactacaatg gagaagcata tgaggatgat gaacatcatc ccagaggtgg tgttcagtgt 1320
cagacctctt aatgggccag tgaataacac tcactgctgg catttaatgt gcagtagtga 1380
atgagtgaag gactgtaatc ataatatgct cactacttgc tcttgttttt gttttaataa 1440
actatagtag tgttataaaa agttaaatga agaataaacg caaatataaa agctctgatt 1500
ttgccctgta tgtatgatga cttcagtgtg caagatg                           1537
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<210> 60
<211> 1807
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Template ID: 233576.63

<400> 60
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gaatagcttt gtttaaatat gtcgtaagaa gggttaggct gttgcaggat gggttttggt 120
attaaaaagt cagtttgctg gatagaacaa tggttgttaa agtgcagttt tatttaatac 180
aatcattttt aataaagcct gacttctggt cataatcctt gaactctagt tcagagtgtg 240
ctatgcactg tgcctttta gagcctgttc taacctgaga ttggcagatt cacctaaata 300
ttacgtgttt acatgtgttt ttctggggaa aatgggtcca tgatactcta agggagctaa 360
tgatgaaatc agattgaaca gtgaaagttt cttttgaagg taaactttcc tgagaatggc 420
tttctctctc ctgataaact gtctttgctg gaaaaactcc tacccgagag gaaggaagtg 480
gaagagactg atgagatgga ccaagtagaa ctggtggact tgatccaaa tcaggaaaga 540
cggcgccact acaatggaga agcatatgag gatgatgaac atcatcccag aggtggtgtt 600
cagtgtcaga cctcttaatg ggccagtgaa taacactcac tgctggcatt taatgtgcag 660
tagtgaatga gtgaaggact gtaatcataa tatgctcact acttgctctt gtttttgttt 720
taataaacta tagtagtgtt ttaaaaagtt aaatgaagaa taaacgcaaa tataaaagct 780
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aaactacaaa gaagttcccc tagcatttct aggccaaacc ttgtaattga cttcagctat 900
gtacgtggac aagcttagac tgaaatgcta ggtatatgta ttggcttcag tgtatgaccc 960
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tttgtagaga agtgttggtc tgtatagttc tttatattaa gtgggattca ttgtaatgcc 1080
tctgcattta ttctgttgcc tcagctgtta cttgaagatg gcgtaatata taatttatcc 1140
tgtggtatca gtgataaaaa tgataccttt ctgtaggagg ggtttatcat aatatgctgc 1200
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tacatatata tatataatct tgaccagtcc tggtcatttg ctcccctcct tgtctgtgga 1320
ccatgataag cccaagtagt gacttcagag ctgggtaaca gaaattaaag tgaaaagacc 1380
tttacgtgga gaatttgcat gcgtaatata ggaaggtgtt ctttaggtat gttacaggat 1440
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```
tactttaaac catttgactt tcgctccaaa gttatgttgg tagtatagca aattatgatg 1500
aatagcttta attgtatgtt taaaagtctc atatgttcac atgcttaaat ctgggtatca 1560
gaatttaagc aattcttgaa atgtattgtc tccttaatat actaattaca aagcatctcc 1620
aatgtgtgtc actacaggct ttttttttccc agatcatcaa attttggctt ttaactaaga 1680
tacatagctt tattttagct agtctgaatg agtgatacaa aaatactatt gaactatagt 1740
taaataatat taaataggat ggagagtaaa agtggaggac tgggtaatga gccaagaaga 1800
aggggtg                                                           1807
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<210> 61
<211> 2186
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Template ID: 235809.8

<400> 61
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caccgccgtc caggacccac ttgcagcatg gagtcgcccg cctcgagcca gcccgccagc 180
atgccccagt ccaaaggaaa atccaagagg aagaaggatc tacggatatc ctgcatgtcc 240
aagccacccg cacccaaccc cacacccccc cggaacctgg actcccggac cttcatcacc 300
attggagaca gaaactttga ggtggaggct gatgacttgg tgaccatctc agaactgggc 360
cgtggagcct atggggtggt agagaaggtg cggcacgccc agagcggcac catcatggcc 420
gtgaagcgga tccgggccac cgtgaactca caggagcaga agcggctgct catggacctg 480
gacatcaaca tgcgcacggt cgactgtttc tacactgtca ccttctacgg ggcactattc 540
agagagggag acgtgtggat ctgcatggag ctcatggaca tccttggaca agttctac 600
cggaaggtgc tggataaaaa catgacaatt ccagaggaca tccttgggga gattgctgtg 660
tctatcgtgc gggccctgga gcatctgcac agcaagctgt cggtgatcca cagagatgtg 720
aagccctcca atgtccttat caacaaggag ggccatgtga agatgtgtga ctttggcatc 780
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tcggtgtcat tcacctttcg tgtttttttt aatttatcct ctgttgattt tttcttttgc 1860
tttatgggtt tggcttgttt ttcttgcatg gtttggagct gatcgcttct cccccacccc 1920
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ggcttgacag gggctatggg tttgctttgg tgttgttttt aaaaaacgaa aatatatttt 2100
tttgaaaaaa cgactgccca tcccgggtcc tttccctgat gggttggggc agttacctgg 2160
ttgctgtttt aattaaaaaa aacaaa                                      2186
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<210> 62
<211> 1699

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Template ID: 238849.1

<400> 62
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ggcaatggcg acgtacacct gcataacttg ccgggtggcg ttccgcgacg cggaacatgc 180
agcgggccca ctataagacg gactggcacc gctacaacct gcggcggaag gtggccagca 240
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aggaggagag caagggctcg gccacctact gcaccgtttg cagtaagaag tttgcctctt 360
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tgcaggcagt gaatcggaaa gtggagatga tgaatgaaaa gaacttggag aaaggactgg 480
gcgtggacag tgtggacaag gatgccatga agcgcggcca tccagcaggc catcaaggcc 540
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cggctccagt ggtttgaaca gcaggcgaag aagttggcaa agcagcagga ggaggacagc 720
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attcctgata tagaatatct ttcagatatt aagggactga ttaaatactt gggagagaaa 1020
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gagtctgctg ggattgagca atcatctcct gcccaagttt cctccttgcc ctgaggacca 1620
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ataaaagtta gaaccataa 1699

<210> 63
<211> 226
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Template ID: 244230.1

<220>
<221> unsure
<222> 4, 12, 26, 60, 62, 170
<223> a, t, c, g, or other

<400> 63
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gngacctctg acccctgggg accttcgctt tgagtgcctt ttgaacgctg gtcccgcggg 120
acttggtttc tcaagctctt tccgccggcg cagggtccca agcccacctn ccgcctcagt 180
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<210> 64
<211> 1973
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Template ID: 244230.4

<400> 64
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accgctacca cgggcgctcg gccaccgtgt ggtcgctggg cgtgcttctc tacgatatgg 180
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ggtgaccctg acacttccag gcactgtgcc cagggtttgg gttttaaatt attgactttg 1200
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gttttttattt gcaatatatg cctgactgaa ttaagcttgc ttgtttaaa caaccaaatc 1560
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atcagtggaa ataaatgatc atagaaggtg cttttcaaaa caactgctat tataattctc 1680
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gatttcattg tataatgtgt atttcttagg agatggctga cttgattgat ctacgctaag 1860
tggagacatt tcacattttt aaaaccaaat gttcaaatct gtattactct ttgccatctt 1920
gtatgtagag gctattttt taaatcatta aattttaga tctctgtttt cat   1973

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<210> 71
<211> 3755
<212> DNA
<213> Homo sapiens

<220>
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<223> Template ID: 1093005.5

<220>
<221> unsure
<222> 3468-3484, 3553-3613
<223> a, t, c, g, or other

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<210> 72
<211> 1346
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Template ID: 1093005.6

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catgtgaatg agcactccaa tatcagccaa catcaatcat tcttaccatg tcacttccca 240
tcatggaacc actcatggtt gctggtggaa cgccaggatt agcttcataa cctatgccac 300
caccacctcc tagaggtgga aatttctggc ctcctgaacc atagggatct cccatgttca 360
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<210> 73
<211> 3330
<212> DNA
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<213> Homo sapiens

<220>
<221> misc_feature
<223> Template ID: 1306997.1

<220>
<221> unsure
<222> 1890
<223> a, t, c, g, or other

<400> 73
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<210> 74
<211> 5633
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Template ID: 202023.6

<220>
<221> unsure
<222> 5608
<223> a, t, c, g, or other

<400> 74
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78

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<211> 4029
<212> DNA
<213> Homo sapiens

<220>
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<223> Template ID: 233225.4

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<210> 76
<211> 3213
<212> DNA
<213> Homo sapiens

<220>
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<223> Template ID: 244146.6

<220>
<221> unsure
<222> 2861-2862, 2866, 2872, 3080
<223> a, t, c, g, or other

<400> 76
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<210> 77
<211> 3081
<212> DNA
<213> Homo sapiens

<220>
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<223> Template ID: 245002.15

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<211> 9049
<212> DNA
<213> Homo sapiens

<220>
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<223> Template ID: 349879.5

<400> 78
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82

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<212> DNA
<213> Homo sapiens

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<223> Template ID: 481087.9

<220>
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1734-1735, 1737, 1740, 1743, 1746, 1749, 5656
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88

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<210> 81
<211> 2116
<212> DNA
<213> Homo sapiens

<220>
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<223> Template ID: 898939.9

<220>
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<222> 1118
<223> a, t, c, g, or other

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ttcactgccg ccagtccctc aagaaaggct tccccaatgg atttcaatgt cactctaacg 660
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ccgtggggaa aatttttcttt cctgtcggtg ctggcaanga agcctgtttc ttcctggtcc 1140
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89

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<210> 82
<211> 2968
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Template ID: 1097722.6

<400> 82
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cggtcctccc cggaggaagc gcctcttgga cgcgtgtgac cgatgcccag attgcacgac 180
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<210> 83
<211> 826
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Template ID: 1097722.7

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tggggatcac catagctttt ctagctacgc tgatcacgca gtttctcgtg tataatggtg 180
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agattttgga agaaaatctg actgtggatt atgacaaaga ttatcttttt tcttaagtaa 480
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actaagactc aattaccaac ccgcagtttc gtgtcagtgc ccaaaggagg taggttgatg 780
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<211> 1510
<212> DNA
<213> Homo sapiens

<220>
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<223> Template ID: 1216877.1

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agaaggacaa ggagatgtct ctccctctcc caaagcacca gcgtccctgc ctcccgtggg 1200
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gcttggtggc catcaagagg gagccagtca ggcctgtgag ggccgtagac cttgtatata 1380
ccctgcacca gcagtgaccg ggcagagccc aacccccctcc acggggggtcc cagcacccac 1440
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<210> 85
<211> 228
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Template ID: 1325741.2


<220>
<221> unsure
<222> 171
<223> a, t, c, g, or other


<400> 85
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aaaaggcttt ggacagtgat gaactggaaa ggactggaat tgatttggga acaactggtc 120
gtcttcagtt aatggcaaga cttgcagagg gtacaggttt gcagattccg ncagcagcac 180
agcaagctct acagatgagt ggctctttgg catttggtgc tgtggcag        228


<210> 86
<211> 516
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Template ID: 1383286.1


<400> 86
gggttttac ctcgagtggc agcgacacaa ttgtctgtga cagtaacagc tacttgggat 60
cccccagttc caaagtgtct taaagtgctg cctccatcta gtacaaaacc tccagctttg 120
agtcattcag tgtcgacttc ttccactaca aaatctccag cgtccagtgc ctcaggtcct 180
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92

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aggcctactt acaagcctcc agtctcaaat tatccaggat atcctaaacc tgaggaagga 240
atacttgaca gtttggatgt ttgggtcatt gctgtgattg ttattgccat agttgttgga 300
gttgcagtaa tttgtgttgt cccgtacaga tatcttcaaa ggaggcagaa gaaagggaaa 360
gcagatggtg gagctgaata tgccacttac cagactaaat caaccactcc agcagagcag 420
agaggctgaa tagattccac aaggctgtct ctgggcaagg atgctttagg cacgataaaa 480
gtttgaggag aacaaacagg aattctgaat taagca                            516
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<210> 87
<211> 3980
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Template ID: 1383324.13

<400> 87

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aagagtgata agttcggctt cagacacgcc ttagcgccag cagtgagtcg gagctctatg 180
gaggtggcag cgggtacccg agtggcggct gcagcagcga ctcctctgag ctgagtttga 240
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cagaaggggg tgcttctcgt ttcagtgctt cttcgggcgg aggaggaagt aggggtgcac 540
ctcagcacta tcccaagact gctggcaaca gatttttatt aatcagcgag ttcctgggga 600
aaaccccagg gcaaaacgct cagaaatgga ttcctgcacg aagcactaga cgagatgaca 660
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aagatgcacc aaactttgat ggcccagcag cagagggtca accaggacag aagcaaagca 960
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atgttgatgt ctatgataag cgtgaaaatc ccctcctccc cgaggaggag aacagagag 1080
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atcttattca cgaatctatc cttcataagt gcatcaaaac acttttggaa aagaagaaga 1200
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atcaagtcat gttcatgccc tgattttata tacttgtatc tatcaataaa cattgtgata 3960
cttgaaaaaa aaaaaaaagg                                         3980
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<210> 88
<211> 2047
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Template ID: 246194.18

<220>
<221> unsure
<222> 39
<223> a, t, c, g, or other

<400> 88
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ccgcagactg gggtgcccc accccaggcc tcctccacc acctccagcc accaggggct 120
cctgcgctgc tgcctccgcc gcaccagggc ctggggcagc cccagttggg gcccccactc 180
ctgcatccac cacctgccca gtcctggccc gcacaacttc ccctcgggc tccactgcca 240
gcggcaaaac gaaagagaga aggagagggc cgtgtgtttc gagaaaaatg ggagcgagcc 300
tatttctttg tggaagtgaa gagcatgcct atgtgtttaa tatgcaaaca aatcgtgtct 360
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cagtacacag aacagactcg agatgccatc ctcaacgaac tgaaaaaggg actcaaatgt 480
caatagggtt tgttttgaaa agcgaattaa cagaagtggc gcggcagtgg tacgccgttc 540
cggaatcacg tgagaagaat gacctgggca ttcagagcta cagcagatgg caagtttata 600
aaggagcaga gtgacgtgtc ctgcacagaa acacatgact gttgagaccg ttatttaagt 660
ctaacgggca tttgcgttgc acagtgagtt ggagataact cggggggattt acaagtccag 720
ttgcttgaaa gagtcaaatt gattgtggcc ttttctttcg ctgctcataa actattacca 780
cccagttagc tttatttatt tgtggtgtta agaatcttga tgtgaccgaa gaagtctgtg 840
gcatggtgcc aaggcaggcc caacactggg aaaggactaa ttttttttgt atattgagag 900
aaaagtttca catagactgg ccagagttcc gaagcacaac tacagacagc gtcatgacag 960
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ggtcgttgca tccatcatca ggagttgact tgttctgagc aactgaacag aacacaccgc 1080
gatgctctcg acacttccgc tcctggactt cagtcacgag tgagttgatg gtgacttgac 1140
ctgagagatt tcacagaagc tctgtgactt ggttgtggaa gaaatctgaa ctgttcaagt 1200
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ttcctaaata caagtctgtg tgaagatggt gagattctac aactatctcc agtagttgtc 1680
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ccccaccgtg ccacccgagg cctgacactg acatctcggt gtggaaggga agacgccagc 1860
ctttttggctt caactcaaag gcgcaaaaag aattatgaaa gagaaaattt taataattaa 1920
atatttctat ttttcaattt gtattttttc aattttgaat ttaaaaatat aaactccagt 1980
aacatccatg tttgtattat gttccatgca ttcaccatag ttgagtaaag atccgatttg 2040
atgatag                                                            2047
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<210> 89
<211> 2172
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Template ID: 480784.15

<400> 89
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tccttgtggg ctagaagaat cctgcaaaaa tgtctctcta tccatctctc gaagacttga 180
aggtagacaa agtaattcag gctcaaactg cttttttctgc aaaccctgcc aatccagcaa 240
ttttgtcaga agcttctgct cctatccctc acgatggaaa tctctatccc agactgtatc 300
cagagctctc tcaatacatg gggctgagtt taaatgaaga agaaatacgt gcaaatgtgg 360
ccgtggtttc tggtgcacca cttcaggggc agttggtagc aagaccttcc agtataaact 420
atatggtggc tcctgtaact ggtaatgatg ttggaattcg tagagcagaa attaagcaag 480
ggattcgtga agtcattttg tgtaaggatc aagatggaaa aattggactc aggcttaaat 540
caatagataa tggtatattt gttcagctag tccaggctaa ttctccagcc tcattggttg 600
gtctgagatt tggggaccaa gtacttcaga tcaatggtga aaactgtgca ggatggagct 660
ctgataaagc gcacaaggtg ctcaaacagg ctttggaga gaagattacc atgaccattc 720
gtgacaggcc ctttgaacgg acgattacca tgcataagga tagcactgga catgttggtt 780
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cctttctcct aggtaatgag tagtgctgtt catattactt tagttctata gcatacttgc 1440
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aacagtgtat gtaggtttca agagattgtg atgattctta aattttaact accttcactt 1620
aatatgcttg aactgtcgcc ttaactatgt taagcatcta gactaaaagc caaaatataa 1680
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aagaagtgaa tcactatatg tgatgtaaaa gttattacac taaacaggat aaacttttga 1920
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taagattatg taacctagct actttgggat ggtcttagaa tattttctg ataacttgtt 2040
ccttttcctg actcctcctt gcaaacaaaa tgatagttga cactttatcc tgattttttt 2100
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<210> 90
<211> 1095
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Template ID: 022485.18

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tgaagatgag tatgaaatgg aatcgccaaa tattactgat accatgaagt tctttctta 420
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ggattgtcct atggagcaat gtaaacgtaa ctcaaccagt atatatttta agatggaaaa 600
tgatcttcca caaaaaatac agtgtactct tagcaatcca ttatttaata caacatcatc 660
aatcattttg acaacctgta tcccaagcag cggtcattca agacacagat atgcacttat 720
acccatacca ttagcagtaa ttacaacatg tattgtgctg tatatgaatg gtattctgaa 780
atgtgacaga aaaccagaca gaaccaactc caattgattg gtaacagaag atgaagacaa 840
cagcataact aaattatttt aaaaactaaa aagccatctg atttctcatt tgagtattac 900
aatttttgaa caactgttgg aaatgtaact tgaagcagct gctttaagaa gaaatacccca 960
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<210> 91
<211> 3756
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Template ID: 059263.15

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cctcccgtcc ctgagtgctg gggatttaag gcagcagtgc ctcctttcag gaaatcacac 300
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cctgtgctgg ggctcgtgcc agcgcctcgg ctgccaggt gctgctttcc aactcccaca 420
tgggctgccc tccccctact gctacccaca gggcccccac tccacctgct cccagacgag 480
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<213> Homo sapiens

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<211> 4521
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<213> Homo sapiens

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<211> 1167
<212> DNA
<213> Homo sapiens

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<210> 95
<211> 2636
<212> DNA
<213> Homo sapiens

<220>
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<212> DNA
<213> Homo sapiens

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cctgaaccta ggagtgcccc attcttttgt aatttaaatg gctgcatccc ccccacctct 3120
ccctgaccct gtatatagcc cagccaggcc ccaggcaggg ccaacccttc tcctcttgta 3180
aataaagccc tgggatcact gtgaaaaaaa aaaaaagggg            3220
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<210> 97
<211> 2962
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Template ID: 349676.8

<400> 97
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gcaccgtctt aaatcgcggt ttggaaaata ttttgttcaa gataaaactg ttttaagata 120
tacgtgtata tatcttatat atctgtattc gcatggtaac atatcttcgg cctccctgag 180
ccgctgggct ctcagcggcc ctccaaggca gcccgcaggc ccctgtgtgc ctcagggatc 240
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cacaaccgcg cgtcctcaga gccagcccgg aggagctaga accttccccg catttctttc 360
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ccgatctgcc cgaaccttct cccgggggtca gcgccgcgcc gcgccacccg gctgagtcag 480
cccgggcggg cgagaggctc tcaactgggc gggaaggtgc gggaaggtgc ggaaaggttc 540
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gcgaaagttc gcggcggcgg gggtcgggtg aggcgcaaaa ggataaaaag cccgtggaag 600
cggagctgag cagatccgag ccgggctggc tgcagagaaa ccgcagggag agcctcactg 660
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cctggtgtcc ctggggggcag cagttgtggc actcaagccc gccaggggga ccccagcacc 2640
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ttgttatgta aaatatagtt at                                          2962
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<210> 98
<211> 994
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Template ID: 394867.1

<400> 98
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ggaaatgaag taactcctca ttcaagaccc tacatggtcc tacttagtct tgacagaaaa 180
accatctgtg ctggggcttt gattgcaaaa gactgggtgt tgactgcagc tcactgtaac 240
ttgaacaaaa ggtcccaggt cattcttggg gctcactcaa taaccaggga agagccaaca 300
aaacagataa tgcttgttaa gaaagagttt ccctatccat gctatgaccc agccacacgc 360
```

```
gaaggtgacc ttaaactttt acagctgacg gaaaaagcaa aaattaacaa atatgtgact 420
atccttcatc tacctaaaaa gggggatgat gtgaaaccag gaaccatgtg ccaagttgca 480
gggtggggca ggactcacaa tagtgcatct tggtccgata ctctgagaga agtcaatatc 540
accatcatag acagaaaagt ctgcaatgat cgaaatcact ataattttaa ccctgtgatt 600
ggaatgaata tggtttgtgc tggaagcctc cgaggtggaa gagactcgtg caatggagat 660
tctggaagcc ctttgttgtg cgagggtgtt ttccgagggg tcacttcctt tggccttgaa 720
aataaatgcg gagaccctcg tgggcctggt gtctatattc ttctctcaaa gaaacacctc 780
aactggataa ttatgactat caagggagca gtttaaataa ccgtttcctt tcatttactg 840
tggcttctta atcttttcac aaataaaatc aatttgcatg actgtacctg tttctctctt 900
gtaaccttag tgggcagatc tgcgccagaa agtgaagcag agttacatgg cagccttgta 960
gataatgcaa ggattacgtg atcaatgtca ccag                              994
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<210> 99
<211> 517
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Template ID: 394867.2

<400> 99
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aagcacacat tttctttctg agccacaaag aaatctcccc acctccatat ttacaaatgg 120
gacaatgaaa ctgatcagta tatatgctca actgccaata caaagaataa atccagtaaa 180
taatgttgtg tctgttctca ggaacaaaag gtcccaggtc attcttgggg ctcactcaat 240
aaccagggaa gagccaacaa aacagataat gcttgttaag aaagagtttc cctatccatg 300
ctatgaccca gccacacgcg aaggtgacct taaactttta caggtacgta tctttgattg 360
tcttctcaaa agtcatagaa ccttctacaa tctggccgcc gacgtgaaaa cctttccttg 420
gtgcccctgt tgtaaaaact cacaataaag aggatcctga aattttggac tataatttaa 480
aatgtaaata tttatcttat cccattaaca ctttatg                          517
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<210> 100
<211> 2005
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Template ID: 433569.1

<400> 100
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cttgcttcct ttgggagaga accttcctct tcttgatcgg ggattcagga aggagcccag 120
gagcagagga agtagagaga gagacaacat gttacatctg caccattctt gtttgtgttt 180
caggagctgg ctgccagcga tgctcgctgt actgctaagt ttggcaccat cagcttccag 240
cgacatttcc gcctcccgac cgaacatcct tcttctgatg gcggacgacc ttggcattgg 300
ggacattggc tgctatggca acaacaccat gaggactccg aatattgacc gccttgcaga 360
ggacggcgtg aagctgaccc aacacatctc tgccgcatct ttgtgcaccc caagcagagc 420
cgccttcctc acgggcagat accctgtgcg atcagggatg gtttccagca ttggttaccg 480
tgttcttcag tggaccggag catctggagg tcttccaaca aatgagacaa cttttgcaaa 540
aatactgaaa gagaaaggct atgccactgg actcattgga aaatggcatc tgggtctcaa 600
ctgtgagtca gccagtgatc attgccacca ccctctccat catggctttg accatttcta 660
cggaatgcct ttctccttga tgggtgattg cgcccgctgg gaactctcag agaagcgtgt 720
caacctggaa caaaaactca acttcctctt ccaagtcctg gccttggttg ccctcacact 780
ggtagcaggg aagctcacac acctgatacc cgtctcgtgg atgccggtca tctggtcagc 840
cctttcggcc gtcctcctcc tcgcaagctc ctattttgtg ggtgctctga ttgtccatgc 900
cgattgcttt ctgatgagaa accacaccat cacggagcag cccatgtgct tccaaagaac 960
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gacaccccctt attctgcagg aggttgcgtc ctttctcaaa aggaataagc atgggccttt 1020
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cgggaagagt ctccacgggc tgtatgggga caacgtagag gagatggact ggatggtagg 1140
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gtcggatcac ggcggttccc tagagaatca acttggaaac acccagtatg gtggctggaa 1260
tggaatttat aaaggtggga agggcatggg aggatgggaa ggtgggatcc gcgtgcccgg 1320
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gatggacgtg ttccccaccg tggtccggct ggcgggcggc gaggtgcccc aggacagagt 1440
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gttcctgatg cattattgtg agaggtttct gcacgcagcc aggtggcatc aacgggacag 1560
aggaacaatg tggaaagtcc actttgtgac gcctgtgttc cagccagagg gagccggtgc 1620
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actcagccca gttcctctgc agctggacag gctgggcaac atctggagac cgtggctgca 1860
gccctgctgt ggcccgttcc ccctctgctg gtgccttagg gaagatgacc cacaataaat 1920
gtctgcagtg aaaagctgga gccccgattc ctaaattttg tcactcaaat tgacacaaac 1980
cagctggcca tggtggttgt catcc                                       2005
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<210> 101
<211> 1454
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Template ID: 995668.51

<400> 101
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tcagttctca gtgagtctaa gtgacagaag gaatggagac cctcttgggc ctgcttatcc 120
tttggctgca gctgcaatgg gtgagcagca aacaggaggt gacgcagatt cctgcagctc 180
tgagtgtccc agaaggagaa aacttggttc tcaactgcag tttcactgat agcgctattt 240
acaacctcca gtggtttagg caggaccctg ggaaaggtct cacatctctg ttgcttattc 300
agtcaagtca gagagagcaa acaagtggaa gacttaatgc ctcgctggat aaatcatcag 360
gacgtagtac tttatacatt gcagcttctc agcctggtga ctcagccacc tacctctgtg 420
ctgtgaggga caatgacatg cgctttggag cagggaccag actgacagta aaacccaata 480
tccagaaccc tgaccctgcc gtgtaccagc tgagagactc taaatccagt gacaagtctg 540
tctgcctatt caccgatttt gattctcaaa caaatgtgtc acaaagtaag gattctgatg 600
tgtatatcac agacaaaact gtgctagaca tgaggtctat ggacttcaag agcaacagtg 660
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ttccagaaga caccttcttc cccagcccag aaagttcctg tgatgtcaag ctggtcgaga 780
aaagctttga aacagatacg aacctaaact ttcaaaacct gtcagtgatt gggttccgaa 840
tcctcctcct gaaagtggcc gggtttaatc tgctcatgac gctgcggctg tggtccagct 900
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gctgaagagc tgccaaacac tgctgccacc ccctctgttc ccttattgct gcttgtcact 1140
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cctgctcccc agagactgcc tccgccatcc cacagatgat ggatcttcag tgggttctct 1260
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agaaatacat agtattcttc ttctcaagac gtggggggaa attatctcat tatcgaggcc 1380
ctgctatgct gtgtatctgg gcgtgttgta tgtcctgctg ccgatgcctt cattaaaatg 1440
atttggaaga gcag                                                   1454
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<210> 102
<211> 2694
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<223> Template ID: 1094412.1

<400> 102
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tcgtggcgcc ttgtgacccc gggcccctgc cgcctgcaag tcggaaattg cgctgtgctc 180
ctgtgctacg gcctgtggct ggactgcctg ctgctgccca actggctggc aagatgaagc 240
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aagaaggagg acgtgggcac ggtggtcggc atcgacctgg ggaccaccta ctcctgcgtc 360
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cagctcacct ccaaccccga gaacacggtc tttgacgcca agcggctcat cggccgcacg 540
tggaatgacc cgtctgtgca gcaggacatc aagttcttgc cgttcaaggt ggttgaaaag 600
aaaactaaac catacattca agttgatatt ggaggtgggc aaacaaagac atttgctcct 660
gaagaaattt ctgccatggt tctcactaaa atgaaagaaa ccgctgaggc ttatttggga 720
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gcaaccaaag acgctggaac tattgctggc ctaaatgtta tgaggatcat caacgagcct 840
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gaagttgtgg ccactaatgg agatactcat ctgggtggag aagactttga ccagcgtgtc 1020
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aatgatgctg agaagtttgc tgaggaagac aaaaagctca aggagcgcat tgatactaga 1920
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tcaattactt attttaggaa atttaagact agatactcgt gtgtggggtg aggggaggga 2640
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<210> 103
<211> 2812
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Template ID: 1330258.16

<400> 103
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gccatgaggg ccctgtgggt gctgggcctc tgctgcgtcc tgctgacctt cgggtcggtc 180
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gccgaagtta acagaatgat gaaacttatc atcaattcat tgtataaaaa taaagagatt 420
ttcctgagag aactgatttc aaatgcttct gatgctttag ataagataag gctaatatca 480
ctgactgatg aaaatgctct ttctggaaat gaggaactaa cagtcaaaat taagtgtgat 540
aaggagaaga acctgctgca tgtcacagac accggtgtag gaatgaccag agaagagttg 600
gttaaaaacc ttggtaccat agccaaatct gggacaagcg agtttttaaa caaaatgact 660
gaagcacagg aagatggcca gtcaacttct gaattgattg ccagtttgg tgtcggtttc 720
tattccgcct ccttgtagc agataaggtt attgtcactt caaaacacaa caacgatacc 780
cagcacatct gggagtctga ctccaatgaa ttttctgtaa ttgctgaccc aagaggaaac 840
actctaggac ggggaacgac aattacccct gtcttaaaag aagaagcatc tgattacctt 900
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<210> 104
<211> 2304
<212> DNA
<213> Homo sapiens

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<220>
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<223> Template ID: 1383039.19

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<210> 105
<211> 2784
<212> DNA
<213> Homo sapiens

<220>
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<223> Template ID: 201780.1

<220>
<221> unsure
<222> 1805, 1810-1811
<223> a, t, c, g, or other
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<210> 106
<211> 1501
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Template ID: 025003.1

<220>
<221> unsure
<222> 33, 1305
<223> a, t, c, g, or other

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a   1501

<210> 107
<211> 550
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Template ID: 995668.15

<400> 107
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caaagaccag tttgtttcca tattcgccta cagcacagag ataagtggct gagtcttcag 180
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<210> 108
<211> 3012
<212> DNA
<213> Homo sapiens

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<220>
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<223> Template ID: 1013708.6

<220>
<221> unsure
<222> 70
<223> a, t, c, g, or other

<400> 108
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<210> 109
<211> 476
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Template ID: 1397264.2

<220>
<221> unsure
<222> 11
<223> a, t, c, g, or other

<400> 109
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<210> 110
<211> 434
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Template ID: 246946.1

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<210> 111
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<220>
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<223> Template ID: 346551.4

<400> 111
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<211> 1248
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

113

<223> Template ID: 360532.1

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<210> 113
<211> 4603
<212> DNA
<213> Homo sapiens

<220>
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<223> Template ID: 401750.2

<220>
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<222> 3337-3377
<223> a, t, c, g, or other

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115

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<211> 259
<212> DNA
<213> Homo sapiens

<220>
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<210> 115
<211> 611
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Template ID: 144947.1

<400> 115
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gataaaaaga agagctcctg tctgttcagc aaagacaaga cagccatgaa agtatcatag 600
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<210> 116
<211> 586
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Template ID: 235687.5

<220>
<221> unsure
<222> 5, 45, 49, 127, 133, 159
<223> a, t, c, g, or other

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